BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAAPURA

***Name of Work**: Estimate for Improvements to roads & drains Surrounding in ward No. 10, (Doddabommasandra).*

Job Code: 010-20-000063

P-Code: P-0541 Emergency Reserve Fund

Estimated Cost: Rs. 100.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

Project:Improvements to roads & drains Surroundin in ward no 10

Est Cost: =100.00Lakhs

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Removing and resetting of footpath slab								
	1st main muneshwara layout		2	370.00	0.90		666.00		
	RR school to 1st main		2	145	0.90		261.00		
	Consider 30% missing slabs						-278.10		
		sqm					648.90	208.82	135503.00
	Pg No 270 It No 37.56 of PWD SR 2018-19								
	Basic rate	*197.00*							
	Area Weightage 6%	*11.82*							
	Final Rate	*208.82*							
2	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3								
	ward no 10								
	New Culverts		4	6.00	1.40	0.60	20.16		
	doddabommasandra road near KNV LHS		1	50.00	0.95	0.90	42.75		
	1st cross M.Kempanna Layout		2	145.00	0.95	0.90	247.95		
	1st B cross M kempanna lyt		1	35.00	0.95	0.90	29.93		
	1st C cross road M Kempanna lyt		2	70.00	0.95	0.90	119.70		
	1st D cross road M Kempanna layout		2	50.00	0.95	0.90	85.50		
	Ramchandrapura tent road to arch		2	50.00	0.95	0.90	85.50		
	saucer drain		1	100.00	0.45	0.25	11.25		
		Cum					642.74	137.80	88569.00
	Pg No 143 It No 19.1 of PWD SR 2018-19								
	Basic rate	*130.00*							
	Area Weightage 6%	*7.80*							
	Final Rate	*137.80*							
3	KSRRB M2900- PCC 1:3:6 in Foundation KSRRB M2900-1. Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No.								
	ward no 10	Cum							
	For Drains								
	New Culverts		4	6.00	1.4	0.15	5.04		
	doddabommasandra road near KNV LHS		1	50.00	0.95	0.15	7.13		
	1st cross M.Kempanna Layout		2	145.00	0.95	0.15	41.33		
	1st B cross M kempanna lyt		1	35.00	0.95	0.15	4.99		
	1st C cross road M Kempanna lyt		2	70.00	0.95	0.15	19.95		
	1st D cross road M Kempanna layout		2	50.00	0.95	0.15	14.25		
	Ramchandrapura tent road to arch		2	50.00	0.95	0.15	14.25		
	saucer drain		1	100.00	0.45	0.15	6.75		
							113.68	4479.56	509225.00
	Pg No 254 It No 34.1 of PWD SR 2018-19								
	Basic rate	*4226.00*							
	Area Weightage 6%	*253.56*							
	Final Rate	*4479.56*							

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
4	Providing laying palin / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300kgs with 20mm and downsize granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering shuttering cost of materials, HOM of machinery, curing etc., complet excluding cost of steel as per MORTH specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications **wall & bottom thickness 15cm**								
	ward no 10	**Cum**							
	Raft								
	New Culverts		1	6.00	0.90	0.15	0.81		
	doddabommasandra road near KNV LHS		1	50.00	0.75	0.15	5.63		
	1st cross M.Kempanna Layout		2	145.00	0.75	0.15	32.63		
	1st B cross M kempanna lyt		1	35.00	0.75	0.15	3.94		
	1st C cross road M Kempanna lyt		2	70.00	0.75	0.15	15.75		
	1st D cross road M Kempanna layout		2	50.00	0.75	0.15	11.25		
	Ramchandrapura tent road to arch		2	50.00	0.75	0.15	11.25		
	Walls								
	doddabommasandra road near KNV LHS		2	50.00	0.15	0.80	12.00		
	1st cross M.Kempanna Layout		4	145.00	0.15	0.80	69.60		
	1st B cross M kempanna lyt		2	35.00	0.15	0.60	6.30		
	1st C cross road M Kempanna lyt		4	70.00	0.15	0.60	25.20		
	1st D cross road M Kempanna layout		4	50.00	0.15	0.60	18.00		
	Ramchandrapura tent road to arch		4	50.00	0.15	0.75	22.50		
	saucer drain		1	100	0.45	0.15	6.75		
							241.60	7070.20	**1708143.00**
	Pg No 271 It No 37.59.2 of PWD SR 2018-19								
	Basic rate	***6670.00***							
	Area Weightage 6%	***400.20***							
	Final Rate	***7070.20***							
5	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.1 (P.No.16, I.No.4.28 of PW,P&IWTD SR 2018-19)								
	Bottom Raft	**sqm**							
	for culvert	2	4.00	6.00		0.25	12.00		
							12.00	273.48	**3282.00**
	P.No.16, I.No.4.28 of PW,P&IWTD SR 2018-19								
	Basic rate	**258.00**							
	Area Weightage 6%	**15.48**							
	Final Rate	**273.48**							
6	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.16, I.No.4.31 of PW,P&IWTD SR 2018-19)								
		sqm							
	Culverts	4	4	6.00		0.60	57.60		
							57.60	379.48	**21858.00**
	(P.No.16, I.No.4.31 of PW,P&IWTD SR 2018-19)								
	Basic rate	**358.00**							
	Area Weightage 6%	**21.48**							
	Final Rate	**379.48**							
7	Providing and laying in position plain/reainforced cement concrete M20 for sub structure/ Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with superplasticisers @ 3ltrs confirming to IS 9103-2008, concrete laid in layers, well compacted and providing weep holes wherever necessary with necessary scaffoldingf, formwork etc., including cost of labour, HOM curing etc., complete								
	Bottom Raft	**Cum**							
	Culverts		4	6.00	1.20	0.25	7.20		

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Walls								
	Culverts		8	6.00	0.25	0.60	7.20		
							14.40	5277.74	**75999.00**
	Pg No 257 It No 34.17 of PWD SR 2018-19								
	Basic rate	***4979.00***							
	Area Weightage 6%	***298.74***							
	Final Rate	***5277.74***							
8	KSRRB M2200-6. Providing TMT steel reinforcement Fe500 for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH specification No 1600 & 2200								
		Tonne							
	Consider 55 Kgs/cum for item No. only RCC drain Qtyexcluding Saucer drain			234.85	0.055	--	12.92		
	Consider 80 Kgs/cum for item No. only RCC Culvert Qty			14.40	0.080	--	1.16		
							14.08	65046.90	**915860.00**
	Pg No 229 It No 28.8.2 of PWD SR 2018-19								
	Basic rate	***61365.00***							
	Area Weightage 6%	***3681.90***							
	Final Rate	***65046.90***							
9	Providing granite slabs of selected quality roughly dressed having a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete								
	ward no 10	**Sqm**							
	Add for Damaged slabs vide Itemno 1						278.10		
	missing slabs		1	50.00	0.90		45.00		
	doddabommasandra road near KNV LHS		1	50.00	0.75		37.50		
	2nd cross muneshwara layout		2	75.00	0.75		112.50		
	1st C cross road M Kempanna lyt		2	70.00	0.75		105.00		
	1st D cross road M Kempanna layout		2	50.00	0.75		75.00		
	Ramchandrapura tent road to arch		2	50.00	0.75		75.00		
		Sqm					**728.10**	966.72	**703869.00**
	Pg No 26 It No 5.31.2 of PWD SR 2018-19								
	Basic rate	***912.00***							
	Area Weightage 6%	***54.72***							
	Final Rate	***966.72***							
	KSRB 5-8.1 : Providing one line dressing to granite stone slab / granite stone masonry as per specifications .KBS 5.1.13								
	Add for Damaged slabs vide Itemno 1						278.10		
	missing slabs		1.00	50.00	0.90		45.00		
	doddabommasandra road near KNV LHS		1.00	50.00	0.75		37.50		
	2nd cross muneshwara layout		1.00	75.00	0.75		56.25		
	1st C cross road M Kempanna lyt		1.00	116.00	0.75		87.00		
	1st D cross road M Kempanna layout		2.00	50.00	0.75		75.00		
	Ramchandrapura tent road to arch		2.00	50.00	0.75		75.00		
		sqm					**653.85**	950.82	**621694.00**
	Pg No 26 It No 5.18 of PWD SR 2018-19								
	Basic rate	***897.00***							
	Area Weightage 6%	***53.82***							
	Final Rate	***950.82***							
10	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13								

Sl. No	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
	for ex:0.75+0.75+0.6+0.6 = 2.7mtr/slab		sides LHS/RHS	Nos	Length				
	missing slabs		1.00	83.00	3.00		249.00		
	doddabommasandra road near KNV LHS		1.00	83.00	2.70		224.10		
	2nd cross muneshwara layout		1.00	125.00	2.70		337.50		
	1st C cross road M Kempanna lyt		1.00	193.00	2.70		521.10		
	1st D cross road M Kempanna layout		2.00	83.00	2.70		448.20		
		RMT					**1779.90**	61.48	**109428.00**
	Pg No 26 It No 5.22of PWD SR 2018-19								
	Basic rate	***58.00***							
	Area Weightage 6%	***3.48***							
	Final Rate	***61.48***							
11	RCC Precast cover slab of 250mm thick Providing and Fixing Pre cast Reinforced Cement concrete Covering Slabs of 25cms thick made out of M25 with OPC Cement at 340kg/cum with 20mm and down size graded granite metal coarse aggregates at 0.70cum and Fine Aggregates at 0.74cum with Superplasticisers ,machine mixed including providing and removing centring shuttering strutting propping etc,for edge of slabs with TMT steels (Fe-500) Cost and Reinforcement charges, including finishing as required with cost of all materials, labours and all lead and lift,HOM machineries,curing,including cost of reinforcement etc., complete as direction of Engineer in charge of the work								
	Culverts		4	6.00	1.20	--	28.80		
		Sqm					**28.80**	5217.00	**150250.00**
	Data Rate	***5217.00***							
12	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202								
	1st B main road Muneshwara swamy lyt		1	50	4.00	0.15	30.00		
	cross road		1	25	5	0.15	18.75		
		cum					**48.75**	952.94	**46456.00**
	Pg No 140 It No 18.47of PWD SR 2018-19								
	Basic rate	***899.00***							
	Area Weightage 6%	***53.94***							
	Final Rate	***952.94***							
13	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301								
	For Roads								
	1st B main road Muneshwara swamy lyt		1	50	4.00	0.20	40.00		
	bad reaches in RR school road		10	3.5	4.30	0.20	30.10		
	Doddabommasandra road near KNV RHS		8	1.5	2.20	0.20	5.28		
	RR school to 1st main		5	3.20	1.20	0.20	3.84		
	3rd cross muneshwara swamy lyt		5	1.2	1.5	0.20	1.80		
	2nd cross Muneshwara lyt		6	0.9	1.3	0.20	1.40		
	1st cross road M Kempanna Lyt		4	2.2	1.5	0.20	2.64		
	1st c cross Kempannalyt		2	5.00	0.80	0.20	1.60		
	cross road		1	23	5	0.20	23.00		
		Cum					**109.66**	43.46	**4766.00**
	Pg No 143 It No 19.14 of PWD SR 2018-19								
	Basic rate	***41.00***							
	Area Weightage 6%	***2.46***							
	Final Rate	***43.46***							

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
14	KSRDB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Using concrete Batching plant at 75cum/hr capacity with fixed form paver . clause 601 of MORTH V Revision and IS 456 Table -5								
	For Roads								
	1st B main road Muneshwara swamy lyt		1	50	4.00	0.15	30.00		
	cross road		1	23	5.00	0.15	17.25		
		cum					**47.25**	3884.90	**183562.00**
	Pg No 176 It No 22.1.2 of PWD SR 2018-19								
	Basic rate	***3665.00***							
	Area Weightage 6%	***219.90***							
	Final Rate	***3884.90***							
15	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)								
	1st B main road Muneshwara swamy lyt		1	50	4	0.15	30.00		
	doddabommasandra road near KNV LHS		1	50	5.8	0.15	43.50		
	2nd cross road doddabommasndra		1	46	5.7	0.15	39.33		
	2nd A cross		1	26	5.5	0.15	21.45		
	3rd cross road		1	60	3.5	0.15	31.50		
	1st B cross M kempanna lyt		1	35	5.1	0.15	26.78		
	cross road		1	65	4.6	0.15	44.85		
	cross road		1	23	5	0.15	17.25		
		cum					**254.66**	5210.96	**1326997.00**
	Pg No 176 It No 22.6.1 of PWD SR 2018-19								
	Basic rate	***4916.00***							
	Area Weightage 6%	***294.96***							
	Final Rate	***5210.96***							
16	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and								
	1st B main road Muneshwara swamy lyt		1	50.00	4.00		200.00		
	doddabommasandra road near KNV LHS		1	50.00	5.80		290.00		
	2nd cross road doddabommasndra		1	46.00	5.70		262.20		
	2nd A cross		1	26.00	5.50		143.00		
	3rd cross road		1	60.00	3.50		210.00		
	1st B cross M kempanna lyt		1	35.00	5.10		178.50		
	cross road		1	65.00	4.60		299.00		
	cross road		1	23.00	5.00		115.00		
		Sqm					**1697.70**	72.08	**122370.00**

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	Pg No 176 It No 22.7 of PWD SR 2018-19								
	Basic rate	*68.00*							
	Area Weightage 6%	*4.08*							
	Final Rate	*72.08*							
17	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406								
	wetmix for Bad reaches								
	bad reaches in RR school road		10	3.5	4.3	0.225	33.86		
	Doddabommasandra road near KNV RHS		8	1.5	2.2	0.225	5.94		
	RR school to 1st main		5.00	3.20	1.20	0.225	4.32		
	3rd cross muneshwara swamy lyt		5.00	1.20	1.50	0.225	2.03		
	2nd cross Muneshwara lyt		6.00	0.90	1.30	0.225	1.58		
	1st cross road M Kempanna Lyt		4.00	2.20	1.50	0.225	2.97		
	1st c cross Kempannalyt		2.00	5.00	0.80	0.225	1.80		
		Cum					**52.50**	2001.28	**105061.00**
	Pg No 155 It No 20.18 of PWD SR 2018-19								
	Basic rate	*1888.00*							
	Area Weightage 6%	*113.28*							
	Final Rate	*2001.28*							
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502								
	bad reaches in RR school road		10	3.50	4.30		150.50		
	Doddabommasandra road near KNV RHS		8	1.50	2.20		26.40		
	RR school to 1st main		5	3.20	1.20		19.20		
	3rd cross muneshwara swamy lyt		5	1.20	1.50		9.00		
	2nd cross Muneshwara lyt		6	0.90	1.30		7.02		
	1st cross road M Kempanna Lyt		4	2.20	1.50		13.20		
	1st c cross Kempannalyt		2	5.00	0.80		8.00		
		Sqm					**233.32**	29.68	**6925.00**
	Pg No 158 It No 21.6 of PWD SR 2018-19 & Issue Rates as on 01-07-2020								
	Basic rate	*28.00*							
	Area Weightage 6%	*1.68*							
	Final Rate	*29.68*							
19	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501								
	RR school road 1st main road		1	370.00	5.25		1942.50		
	Doddabommasandra road near KNV RHS		1	112.00	5.00		560.00		
	RR school to 1st main		1	145.00	5.20		754.00		
	3rd cross muneshwara swamy lyt		1	100.00	5.50		550.00		
	2nd cross Muneshwara lyt		1	75.00	4.50		337.50		
	1st cross road M Kempanna Lyt		1	144.00	5.50		792.00		
	1st c cross Kempannalyt		1	47.00	4.80		225.60		
							-233.32		
		Sqm					**4928.28**	5.30	**26120.00**
	Pg No 158 It No 21.2 of PWD SR 2018-19								
	Basic rate	*5.00*							
	Area Weightage 6%	*0.30*							
	Final Rate	*5.30*							
20	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5								

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
	FOR DBM								
	bad reaches in RR school road		10	3.50	4.30		150.50		
	Doddabommasandra road near KNV RHS		8	1.50	2.20		26.40		
	2nd cross Muneshwara lyt		6	0.90	1.30		7.02		
	1st cross road M Kempanna Lyt		4	2.20	1.50		13.20		
	1st c cross Kempannalyt		2	5.00	0.80		8.00		
	profile correction 10% of cleaning area		0.1	4928.28			492.83		
	Tack coat For BC								
	RR school road 1st main road		1.00	370.00	5.25		1942.50		
	Doddabommasandra road near KNV RHS		1.00	112.00	5.00		560.00		
	RR school to 1st main		1.00	145.00	5.20		754.00		
	3rd cross muneshwara swamy lyt		1.00	100.00	5.50		550.00		
	2nd cross Muneshwara lyt		1.00	75.00	4.50		337.50		
	1st cross road M Kempanna Lyt		1.00	144.00	5.50		792.00		
	1st c cross Kempannalyt		1.00	47.00	4.80		225.60		
		Sqm					**5859.55**	12.72	**74533.00**
	Pg No 158 It No 21.7 of PWD SR 2018-19 & Issue Rates as on 01-07-2020								
	Basic rate	***12.00***							
	Area Weightage 6%	***0.72***							
	Final Rate	***12.72***							
21	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen								
	for DBM								
	bad reaches in RR school road		10	3.50	4.30	0.05	7.53		
	Doddabommasandra road near KNV RHS		8	1.50	2.20	0.05	1.32		
	2nd cross Muneshwara lyt		6	0.90	1.30	0.05	0.35		
	1st cross road M Kempanna Lyt		4	2.20	1.50	0.05	0.66		
	1st c cross Kempannalyt		2	5.00	0.80	0.05	0.40		
	profile correction 10% of cleaning area		0.10	4928.28	0.00	0.05	24.64		
		Cum					**34.90**	6407.70	**223612.00**
	Pg No 160 It No 21.17.6 of PWD SR 2018-19 & Issue Rates as on 01-07-2020								
	Basic rate	***6045.00***							
	Area Weightage 6%	***362.70***							
	Final Rate	***6407.70***							
22	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(KPWD SR 2018-19, Page No.162, Item No.21.78.12)								
	RR school road 1st main road		1	370.00	5.25	0.04	77.70		
	Doddabommasandra road near KNV RHS		1	112.00	5.00	0.04	22.40		
	RR school to 1st main		1	145.00	5.20	0.04	30.16		
	3rd cross muneshwara swamy lyt		1	100.00	5.50	0.04	22.00		
	2nd cross Muneshwara lyt		1	75.00	4.50	0.04	13.50		
	1st cross road M Kempanna Lyt		1	144.00	5.50	0.04	31.68		
	1st c cross Kempannalyt		1	47.00	4.80	0.04	9.02		
		Cum					**206.46**	7355.34	**1518613.00**
	Pg No 162 It No 21.22.6 of PWD SR 2018-19 & Issue Rates as on 01-07-2020								
	Basic rate	***6939.00***							
	Area Weightage 6%	***416.34***							
	Final Rate	***7355.34***							

Sl. No	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
23	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks								
			2	993.00		0.100	198.60		
	add 10% for bell mouth and approaches						19.86		
		Sqm					**218.46**	454.74	**99343.00**
	Pg No 182 It No 24.15 of PWD SR 2018-19								
	Basic rate	*429.00*							
	Area Weightage 6%	*25.74*							
	Final Rate	*454.74*							
24	KSRRB M100-4.1: Cost of Haulage including loading and unloading of stone Boulder / Stone aggregates / Sand /Kankar / Moorum KSRRB M100-1: Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip including with all lead and lifts, loading and unloading,tools, plants, HOM of machinery, cost of materials, labour and other incidental charges etc., complete as per specification and as per the direction by Engineer in charge of the work.MORTH Chapter 1								
	Same as earthwork excavation qnty						801.15		
		Cum					**801.15**	82.60	**66175.00**
	Pg No 136 It No 17.1 & 17.4 of PWD SR 2018-19								
	Loading and unloading with10 km lead= 57+2x1.28x10 = 82.6	*82.60*							
	Final Rate	*82.60*							
								Total Construction Cost	**8848213.00**
25								**12%GST for Works**	**1061786.00**
26								**add 1%PMS and Quality Control Charges**	**88483.00**
27								**Miscellaneous and rounding off**	**1518.00**
								Total	**10000000.00**

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2018-19 and Issue Rates as on 03-01-2020.
4 The provisions made in the estimate are necessary and essential.
5 The work proposed is not tackled in any of the programme of work in last Three years

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL

Accorded For Rs. 100.00 Lakhs only

Head of A/c. P0541

Div. Ref. No. 44 Date. 8/10/2020

AE 8/10

EE(BTP) 8/10

Technical Sanction

Accorded For Rs.100.00 lakhs only

Head of A/C. 0541

CER NO :...126..... Dt: 09.11.2020

TA

CE (NH)

Name of Work: Improvements to roads & drains surrounding in Ward no 10, (Doddabommasandra).

INDEX:

- Asphalt Road
- Culvert
- CC Road & Drain
- CC Drain

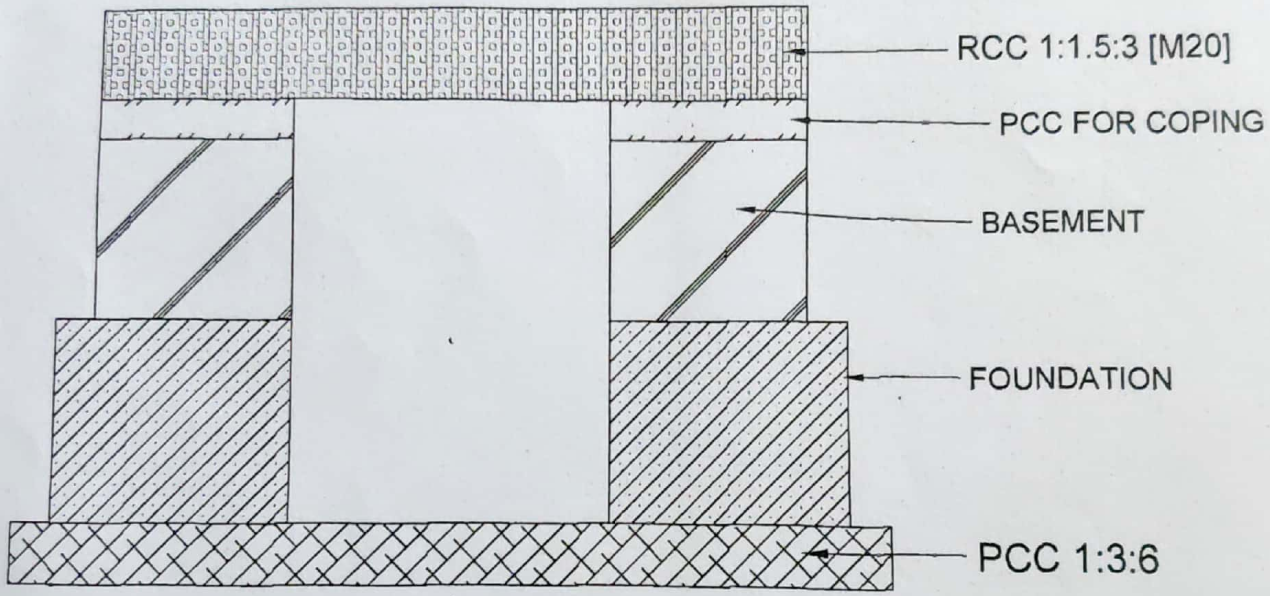
Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Vidyaranyapura Sub Division

Name of Work: Improvements to roads & drains surrounding in Ward no 10, (Doddabommasandra).

Assistant Engineer
Ward No. 10

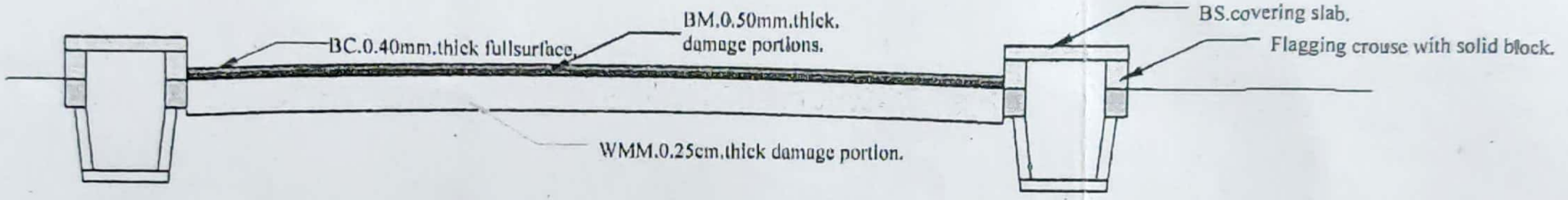
Assistant Executive Engineer
Vidyaranyapura Sub Division



CROSS SECTION FOR CULVERT

Sanctioned
AE (W)10

Scanned with CamScanner

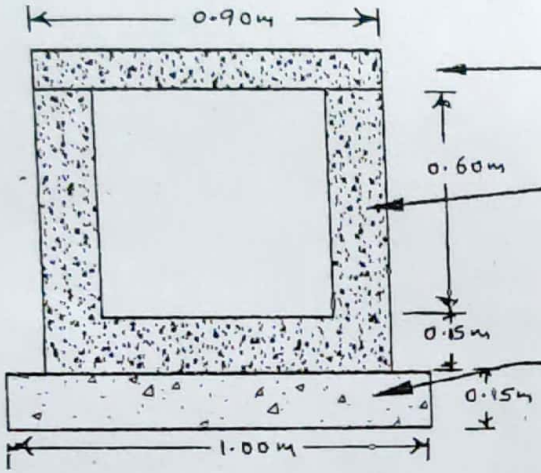


CROSS SECTION OF ASPHALT ROAD.

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE ENGINEER.

Scanned with CamScanner



Precost slab Thick.

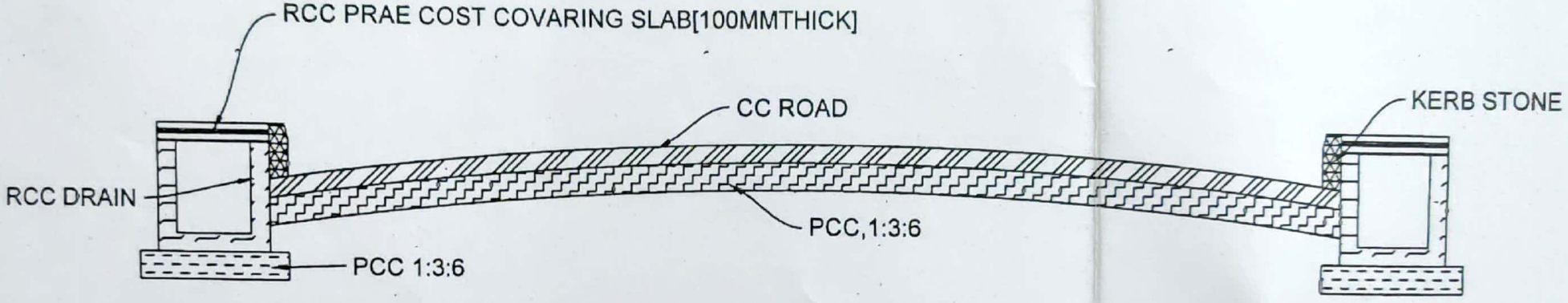
RCC WALL M-20 Thick 0.15.

PCC 1:4:8 Thick 0.15m.

CROSS SECTION OF CC DRAIN

Sarathi N K
AE W10

Scanned with CamScanner



CROSS SECTION FOR 'CC'ROAD & RCC,DRAIN

Scanned with CamScanner

152 - BYATARAYANAPURA AC
WARD NAME : 10 - DODDA BOMMASANDRA